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**TRY NEW METHODS, MODERNIZE MACHINE TOOLS**

ELECTRIC-SPARK HARDENING PROLONGS LIFE OF CUTTING TOOLS -- Vechernyaya  
Moskva. No 84, 8 Apr 50

In response to an appeal for economy, machine-tool builders at the Moscow Tool Plant imeni Ordzhonikidze are concentrating on ways to get the most out of their cutting tools. Hard-alloy plated cutting tools wear very rapidly under high-speed cutting, and the cost of these tools is quite high. If the tools are used carelessly, the saving effected by use of high-speed methods is virtually nullified.

To achieve a saving in hard-alloy tools, the following measures have been recommended: to select the proper methods of cutting, to employ cutters with correct geometrical dimensions, to adhere strictly to the norm set for the use of a tool in a given operation, to utilize machine-tool power to the utmost, and to cool the tool properly. Electric-spark hardening of high-speed cutting tools with hard alloy has given particularly good results. This process prolongs the life of cutters several times.

MASTER FORM FOR THREADING DIES -- Moskovskaya Pravda, No 42, 8 Apr 50

In the past, round threading dies were milled at the Moscow Frezer Plant imeni M. I. Kalinin in the untreated form and then hardened. After heat treatment, the tool lost its accuracy. At present, threads are cut on the hardened blank with an abrasive wheel; as a result, labor productivity has increased 25 percent and rejects have suddenly decreased. Previously, cylindrical and tapered parts of pipe threading dies with left-hand threading were ground separately. Now, by using a master form, these dies can be ground in one pass. This technique has increased labor productivity 20 percent.

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- 1 -

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## HORIZONTAL SPINDLE MILLS VERTICALLY -- Leningradskaya Pravda, No 84, 8 Apr 50

Foreman Potemkin and lathe worker Romanov of the Lenzaparat No 1 tool shop have modernized a horizontal milling machine. They have built a special head whereby vertical milling can be performed on a machine with a horizontal spindle. As a result, productivity has increased six to seven times.

## MODERNIZE 26 MACHINE TOOLS -- Vechernyaya Moskva, No 84, 8 Apr 50

At a conference of Stakhanovites from various Moscow enterprises, foreman A. Goncharov of the Machine-Tool Plant imeni Ordzhonikidze described how the first high-speed section was organized at the plant. In one month, 26 machine tools were modernized by the installation of more powerful motors and new pulleys.

## START MASS PRODUCTION OF SLUDGE PUMP PARTS -- Bakinskiy Rabochiy, No 71, 8 Apr 50

The Krasnyy Proletariy Plant supplies oil equipment to prospectors for mineral resources.

Plant personnel have perfected the mass production of parts for newly designed sludge pumps and have introduced high-speed repair of high-power engines ahead of schedule.

## STUDENTS MAKE OVER 1,000 MACHINE TOOLS -- Komsomol'skaya Pravda, No 82, 6 Apr 50

The 39th Trade School in Leningrad completed its 500th universal screw-cutting lathe, T-4, A, today.

An experimental model of an ultramodern boring machine has just been completed by students of the 14th Trade School. This new machine has eight speeds and can perform complex operations.

During the postwar years, students of Leningrad trade schools have manufactured and shipped over 1,000 machine tools of various types to different cities.

## PRODUCE AIR CHUCKS FOR METAL-CUTTING MACHINE TOOLS -- Trud, No 82, 6 Apr 50

The Leningrad Machine-Tool Attachments Plant of the Ministry of Machine-Tool Building USSR manufactures and sells to all organizations pneumatic cotter chucks for various metal-cutting machine tools in diameters of 200, 160, 150, and 145 millimeters.

An air pressure of 5-7 kilograms per square centimeter is employed for the operation of the chucks.

The Moscow Instruments Plant supplies air cylinders and fixtures to all organizations.

Inquiries about the chucks should be addressed to Leningrad, Predtechenskaya, 65; telephone 549-18, 549-15. -- Advertisement.

- 2 -

SECRET

SECRET

SECRET

SECRET

50X1-HUM

LAST-MINUTE SPEED-UP FAILS TO FULFILL NORMS -- Trud, No 84, 8 Apr 50

Last-minute speed-up prevails throughout the Sverdlovsk Tool Plant month after month. But even with the speed-up drive, personnel of all shops were still trying to fulfill the March plan on the morning of 1 April.

The plant has all facilities for maintaining not only a daily but also an hourly schedule. The fault lies in lack of planning and poor organization.

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- 3 -

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